

SEQUENCE LISTING

<110> Yu Lin
 Lin Sun
 Long V. Nguyen
 Howard M. Goodman

<120> MODIFICATION OF PLANT STORAGE RESERVES

<130> 00786/368002

<150> 60/128,651

<151> 1999-04-08

<160> 9

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1483

<212> DNA

<213> Arabidopsis thaliana

<400> 1

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ccttgccaac	ggattgacat	ggctgcttcc	tgagaagttt	tctgcttcag	agattggacc	240
agaagcagta	acggcttttt	tgggcatatt	cacaacgata	aatgaacaca	taattgaaaa	300
tgctccaaca	cctcgtggcc	atgttggatc	ttccgggaat	gatccatccc	tttcttatcc	360
actactcatc	gccatcctca	aggatttggg	aactgttgtg	gaagtggcag	ctgaacactt	420
ctatgggagac	aaaaaatgga	actacattat	tctcactgaa	gctatgaagg	ctgtcattag	480
gttagccttg	ttccgggaata	gtgggtataa	gatgcttctt	caaggagggg	aaacacctaa	540
tgaggagaaa	gattctaacc	aatccgagtc	gcaaaataga	gctggttaatt	cgggtagaaa	600
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cggtttgtct	cgaagaattc	aacatcagca	agcagttata	gagcctccaa	tgatcaagga	780
gaggcgaaga	acgatgtccg	agctacttac	tgagaagggt	gttaatggag	cgttggtttgc	840
gattggtgag	gttctttaca	taacgagacc	gctcatttac	gttctttttca	tcagaaaata	900
tggagtccga	tcttggattc	cttgggctat	atcgctttct	gtggacacac	tggggatggg	960
tcttcttgca	aattcgaagt	ggtggggaga	gaagagcaag	caagtccatt	tctcaggacc	1020
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attcttcacc	aagtacacaa	ggcagaagct	ggaaagctct	caaaagaagc	tgggaactaat	1140
tccattgatc	ggattcctca	cagagaagat	tgtggagctt	ttggagggag	ctcagtcacg	1200
gtacacttac	atatcgggat	cgtgaggtta	agcgttttac	ttatgggttta	tatgcaacgg	1260
aagaatattg	ccattgttgg	aatgcttttt	tagatcatca	aaggctccta	cagattttctt	1320
agggaatgg	ttcaggcttt	tgtagaaaat	tgtgtttatt	gcaacaggta	gagaacataa	1380
ccatagacag	atgtatctga	agagataagc	ttctctatgt	ctaaagaaat	ggaccgatac	1440
gaataaaaca	agcatcatta	aagattaaaa	aaaaaaaaaa	aaa		1483

<210> 2
 <211> 367
 <212> PRT
 <213> Arabidopsis thaliana

<400> 2
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 Ser Phe Gly Ser Phe Ala Asn Gly Leu Thr Trp Leu Leu Pro Glu Lys
 20 25 30
 Phe Ser Ala Ser Glu Ile Gly Pro Glu Ala Val Thr Ala Phe Leu Gly
 35 40 45
 Ile Phe Thr Thr Ile Asn Glu His Ile Ile Glu Asn Ala Pro Thr Pro
 50 55 60
 Arg Gly His Val Gly Ser Ser Gly Asn Asp Pro Ser Leu Ser Tyr Pro
 65 70 75 80
 Leu Leu Ile Ala Ile Leu Lys Asp Leu Glu Thr Val Val Glu Val Ala
 85 90 95
 Ala Glu His Phe Tyr Gly Asp Lys Lys Trp Asn Tyr Ile Ile Leu Thr
 100 105 110
 Glu Ala Met Lys Ala Val Ile Arg Leu Ala Leu Phe Arg Asn Ser Gly
 115 120 125
 Tyr Lys Met Leu Leu Gln Gly Gly Glu Thr Pro Asn Glu Glu Lys Asp
 130 135 140
 Ser Asn Gln Ser Glu Ser Gln Asn Arg Ala Gly Asn Ser Gly Arg Asn
 145 150 155 160
 Leu Gly Pro His Gly Leu Gly Asn Gln Asn His His Asn Pro Trp Asn
 165 170 175
 Leu Glu Gly Arg Ala Met Ser Ala Leu Ser Ser Phe Gly Gln Asn Ala
 180 185 190
 Arg Thr Thr Thr Ser Ser Thr Pro Gly Trp Ser Arg Arg Ile Gln His
 195 200 205
 Gln Gln Ala Val Ile Glu Pro Pro Met Ile Lys Glu Arg Arg Arg Thr
 210 215 220
 Met Ser Glu Leu Leu Thr Glu Lys Gly Val Asn Gly Ala Leu Phe Ala
 225 230 235 240
 Ile Gly Glu Val Leu Tyr Ile Thr Arg Pro Leu Ile Tyr Val Leu Phe
 245 250 255
 Ile Arg Lys Tyr Gly Val Arg Ser Trp Ile Pro Trp Ala Ile Ser Leu
 260 265 270
 Ser Val Asp Thr Leu Gly Met Gly Leu Leu Ala Asn Ser Lys Trp Trp
 275 280 285
 Gly Glu Lys Ser Lys Gln Val His Phe Ser Gly Pro Glu Lys Asp Glu
 290 295 300
 Leu Arg Arg Arg Lys Leu Ile Trp Ala Leu Tyr Leu Met Arg Asp Pro
 305 310 315 320
 Phe Phe Thr Lys Tyr Thr Arg Gln Lys Leu Glu Ser Ser Gln Lys Lys
 325 330 335
 Leu Glu Leu Ile Pro Leu Ile Gly Phe Leu Thr Glu Lys Ile Val Glu
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 Leu Leu Glu Gly Ala Gln Ser Arg Tyr Thr Tyr Ile Ser Gly Ser

002040-040560

355

360

365

<210> 3
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 3 21
 atcagagatt gatttaacgt a

<210> 4
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 4 21
 acgattttca attatgtgtt c

<210> 5
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 5 19
 cgcttggtcg gtcatttcg

<210> 6
 <211> 391
 <212> PRT
 <213> Yarrowia lipolytica

<400> 6
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 20 25 30
 Ser Ile Gly Ser Ile Glu Ser Thr Leu Arg Thr Val Ser Tyr Val Leu
 35 40 45
 Pro Gly Arg Phe Asn Asp Val Glu Ile Ala Thr Glu Thr Leu Tyr Ala
 50 55 60
 Val Leu Asn Val Leu Gly Leu Tyr His Asp Thr Ile Ile Ala Arg Ala
 65 70 75 80

<210> 8
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 8
aaaaatggaa ctacattatt ctc

23

<210> 9
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<221> variation
<222> (1)...(22)
<223> Where h is a, c, or t/u; not g.

<400> 9
ataagtaaaa cgcttaacct hc

22

002040-2209450